

<ART-105-0>

SERVICE MANUAL

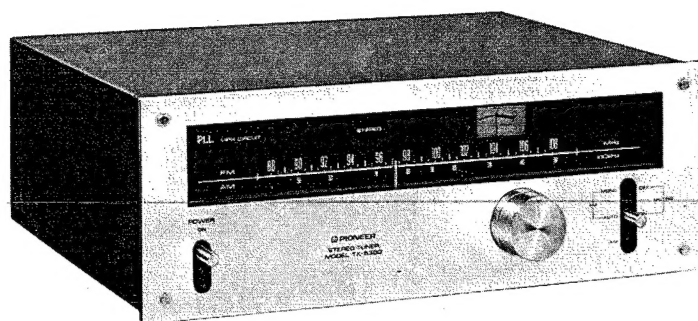
AM/FM STEREO TUNER

TX-5300

FV

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1. SPECIFICATIONS

SEMICONDUCTOR

FET	1
ICs	3
Transistors	5
Diodes	6

FM SECTION

Circuitry	1 FET, 1-stage RF Amplifier, 3-gang Variable Capacitor, 5-stage Limiter, PLL MPX Circuit
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Sensitivity

IHF	1.9μV
50dB Quieting	4.5μV (mono), 50μV (stereo)
Signal-to-Noise Ratio	70dB (mono), 68dB (stereo)

Total Harmonic Distortion

100Hz	0.2% (mono) 0.4% (stereo)
1kHz	0.2% (mono), 0.4% (stereo)
10kHz	0.2% (mono), 0.6% (stereo)

Capture Ratio	1.0dB
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Selectivity ±400kHz	60dB
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Frequency Response	50Hz ~ 10kHz $\begin{smallmatrix} +0.2 \\ -0.5 \end{smallmatrix}$ dB
	20Hz ~ 15kHz $\begin{smallmatrix} +0.2 \\ -2.0 \end{smallmatrix}$ dB

Separation

1kHz	35dB
50Hz ~ 10kHz	30dB
Image Rejection	60dB
IF Rejection	90dB
Supurious Rejection	75dB
AM Suppression	50dB
Sub Carrier Suppression	40dB
Muting Threshold	2.2μV
Stereo Threshold	2.2μV
De-emphasis	25μs/50μs/75μs switchable

AM SECTION

Circuitry	1-stage RF Amplifier, 2-gang Variable Capacitor
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Sensitivity (IHF, Ferrite antenna)	300μV/m
(IHF, Ext. antenna)	15μV

Selectivity	35dB
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Signal-to-Noise Ratio	50dB
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Image Rejection	40dB
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IF Rejection	50dB
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AUDIO SECTION

Output level/Impedance

OUTPUT	750mV/5kΩ
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MISCELLANEOUS

Power Requirements	AC 110V, 120V, 130V, 220V, and 240V 50Hz/60Hz
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Power Consumption	12W
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Dimensions	350(W) x 125(H) x 303(D) mm
	13-3/4 x 4-15/16 x 11-15/16 in

Weight Without Package	4.8kg (10 lb 9 oz)
With Package	5.9kg (13 lb)

FURNISHED PARTS

FM T-type Antenna	1
Connection Cord with Pin Plugs	1
Operating Instructions	1
Fuse 0.5A	1
Fuse 1A	1

NOTE:

Specifications and the design subject to possible modification without notice due to improvements.

2. FRONT PANEL FACILITIES

FUNCTION SWITCH

Switch for selecting type of broadcast reception.

- AM: To receive AM broadcasts
- FM AUTO: To receive FM stereo broadcasts. When an FM monophonic signal is being received, tuner automatically switches to monophonic operation. FM STEREO indicator lights during stereo reception.
- FM MONO: (MUTING OFF) To receive FM monophonic broadcasts. Recommended also when FM AUTO reception is noisy and when receiving extremely weak stations.

NOTE:
In the FM MUTING ON position, inter-station noise is suppressed when tuning FM stations.

POWER SWITCH

Switch for turning AC power ON and OFF.

AM/FM METER

Meter for indicating proper station tuning.

- AM: Tune for maximum deflection toward the right.
- FM: Tune for center of scale indication.

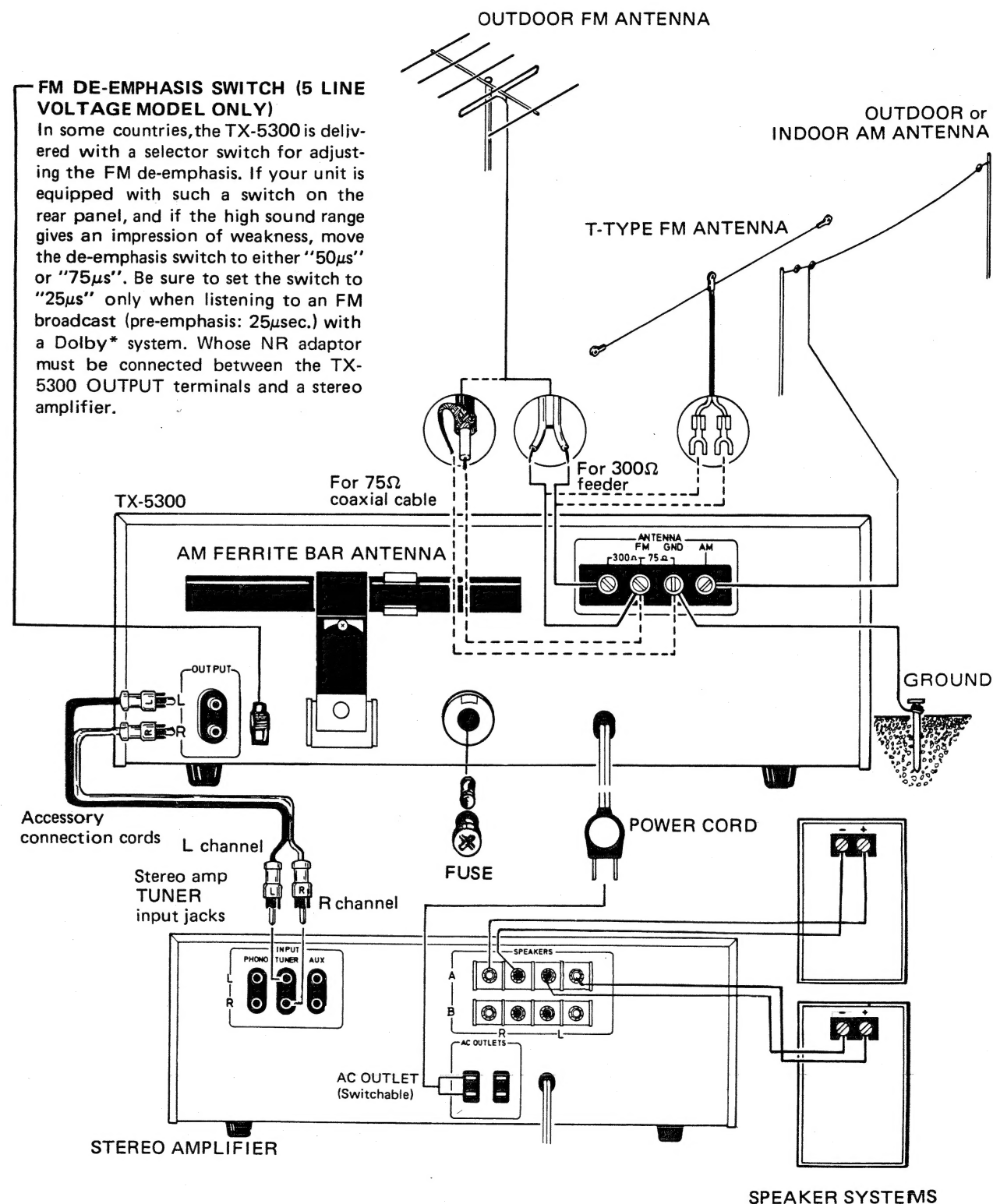
FM STEREO INDICATOR

With the FUNCTION switch set to FM AUTO, red lamp lights when stereo broadcast is being received.

TUNING KNOB

Employ for selecting stations. Observe AM/FM meter when tuning.

3. CONNECTION DIAGRAM



* The word "Dolby" is a trademark of Dolby Laboratories Inc.

Exploded View

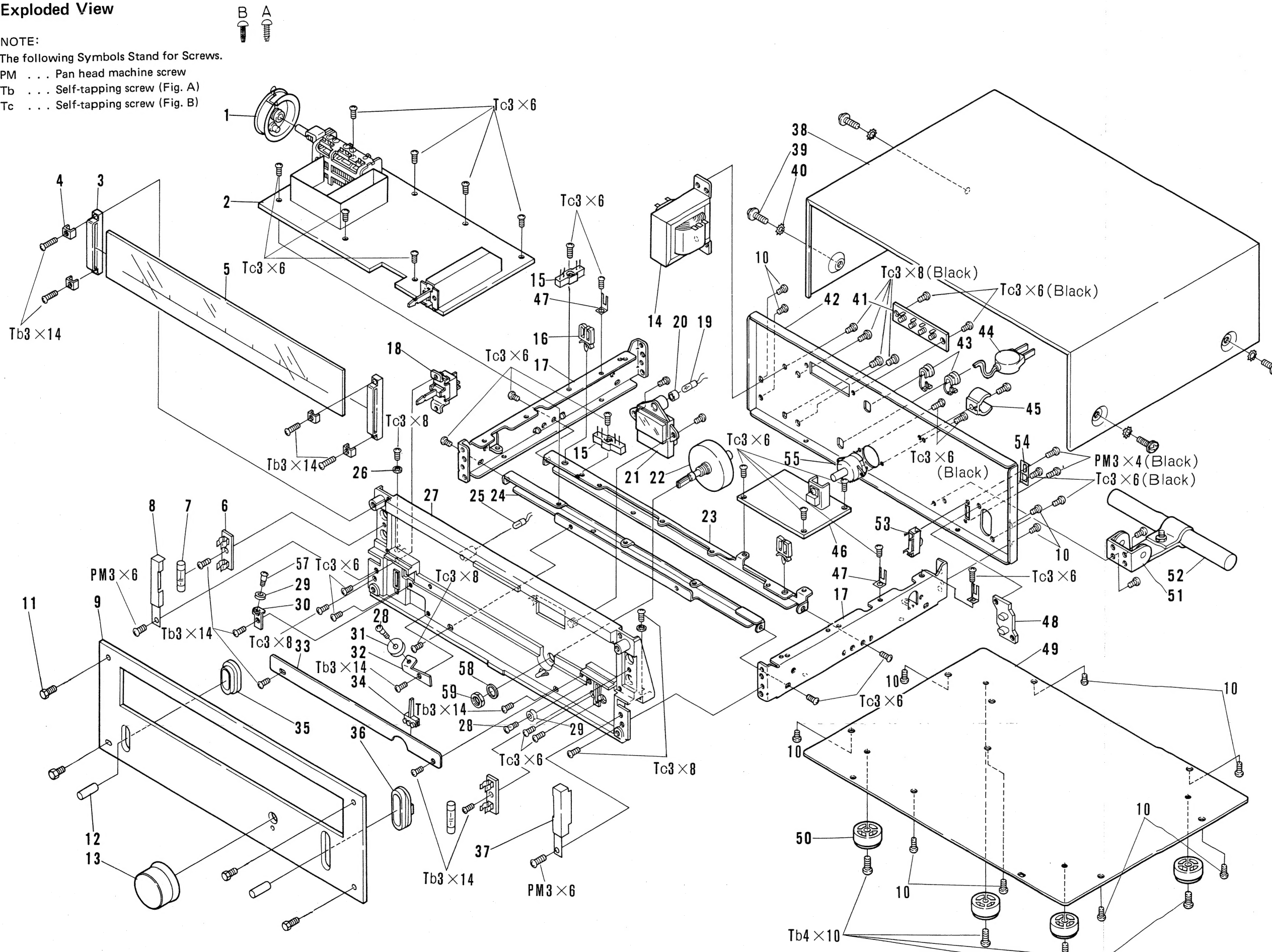
NOTE:

The following Symbols Stand for Screws.

PM . . . Pan head machine screw

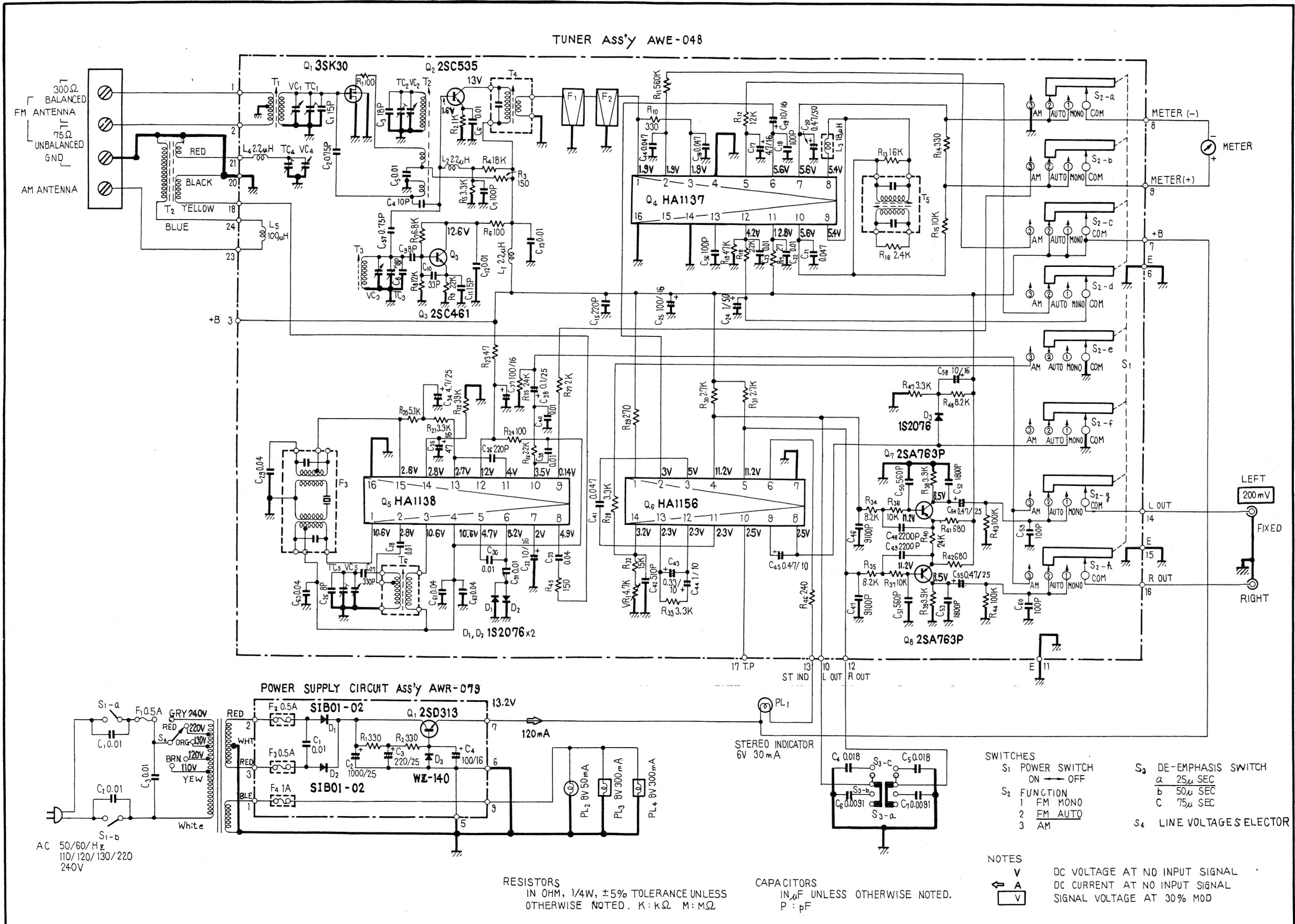
Tb . . . Self-tapping screw (Fig. A)

Tc . . . Self-tapping screw (Fig. B)

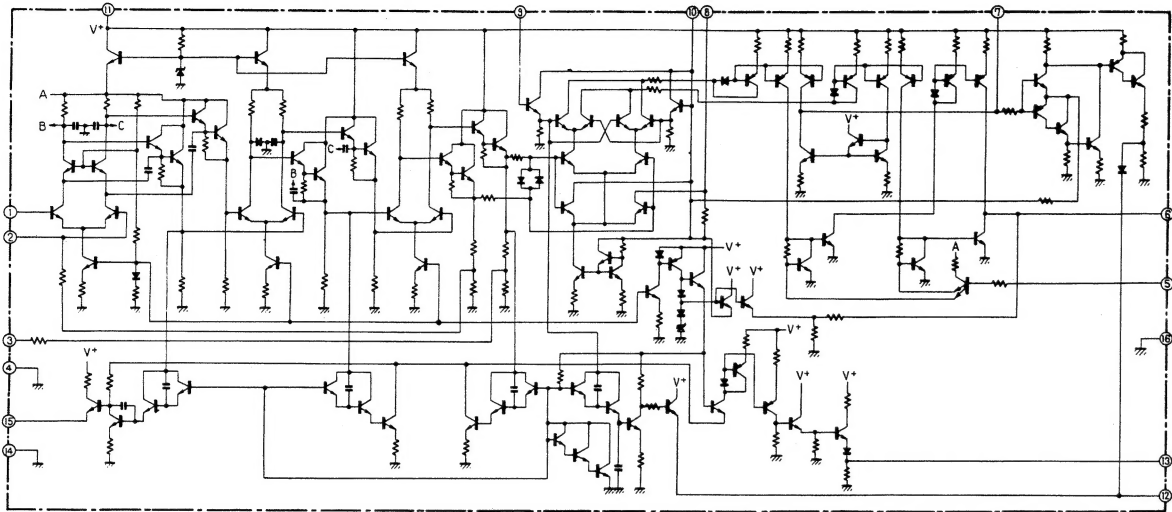


11. SCHEMATIC DIAGRAMS, P.C.BOARD PATTERNS AND PARTS LIST

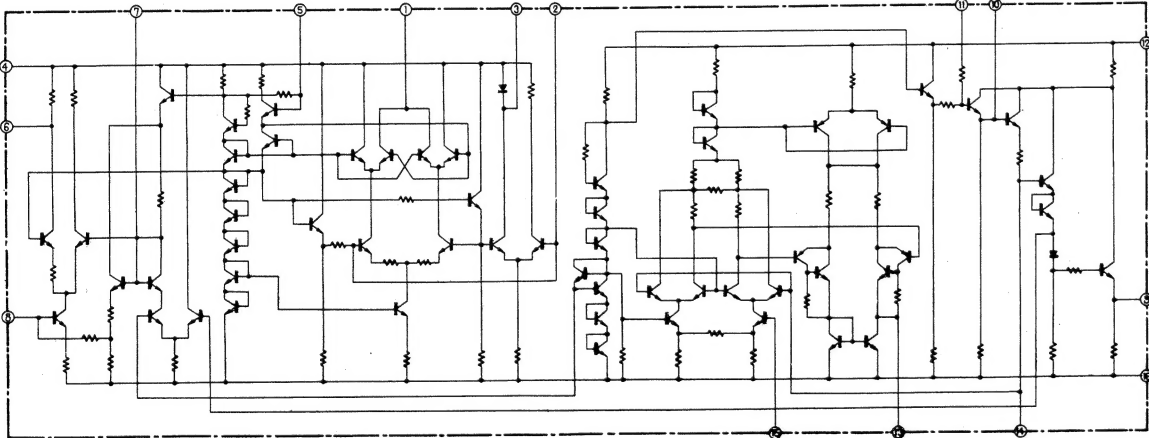
11.1 SCHEMATIC DIAGRAM



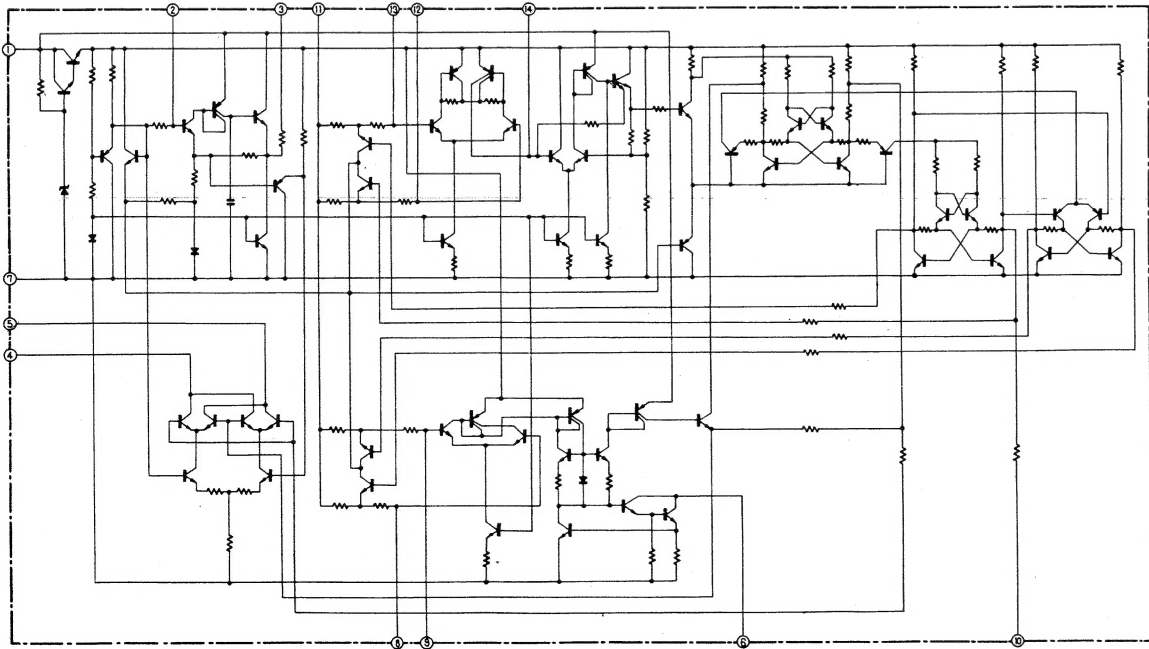
HA1137 (FM IF IC)



HA1138 (AM IC)



HA1156 (FM MPX IC)



11.2 ELECTRO-PARTS LIST

- CAPACITORS: IN μ F UNLESS OTHERWISE NOTED p:pF
- RESISTORS: IN Ω , 1/4W UNLESS OTHERWISE NOTED k:k Ω , M:M Ω

CAPACITORS

Symbol	Description			Part No.	
C1	Ceramic	0.01	250V	ACG-001-0	
C2	Ceramic	0.01	250V	ACG-001-0	
C3	Ceramic	0.01	250V	ACG-001-0	
C4	Mylar	0.018	50V	CQMA 183J 50	
C5	Mylar	0.018	50V	CQMA 183J 50	
C6	Mylar	0.0091	50V	CQMA 912J 50	
C7	Mylar	0.0091	50V	CQMA 912J 50	

LAMPS, FUSES

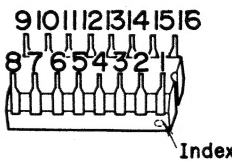
Symbol	Description			Part No.	
PL1	Lamp, 6V	30mA	(STEREO IND.)	AEL-017-A	with leads
PL2	Lamp, 8V	50mA	(AM/FM meter)	AEL-026-0	with leads
PL3	Lamp, 8V	300mA	(dial scale)	E22-032-0	bar type
PL4	Lamp, 8V	300mA	(dial scale)	E22-032-0	bar type
F1	Fuse	0.5A	(primary)	AEK-016-0	
F2	Fuse	0.5A	(secondary)	AEK-016-0	
F3	Fuse	0.5A	(secondary)	AEK-016-0	
F4	Fuse	1A	(lamps)	AEK-106-0	

OTHERS

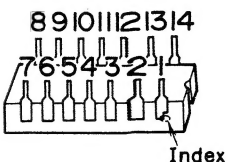
Symbol	Description			Part No.	
S1	Lever switch	(POWER)		ASK-024-0	
S3	Slide switch	(D E-EMPHASIS)		ASH-013-0	
T1	Power transformer			ATT-218-0	
T2	Ferrite bar antenna			ATB-038-0	

HA1137

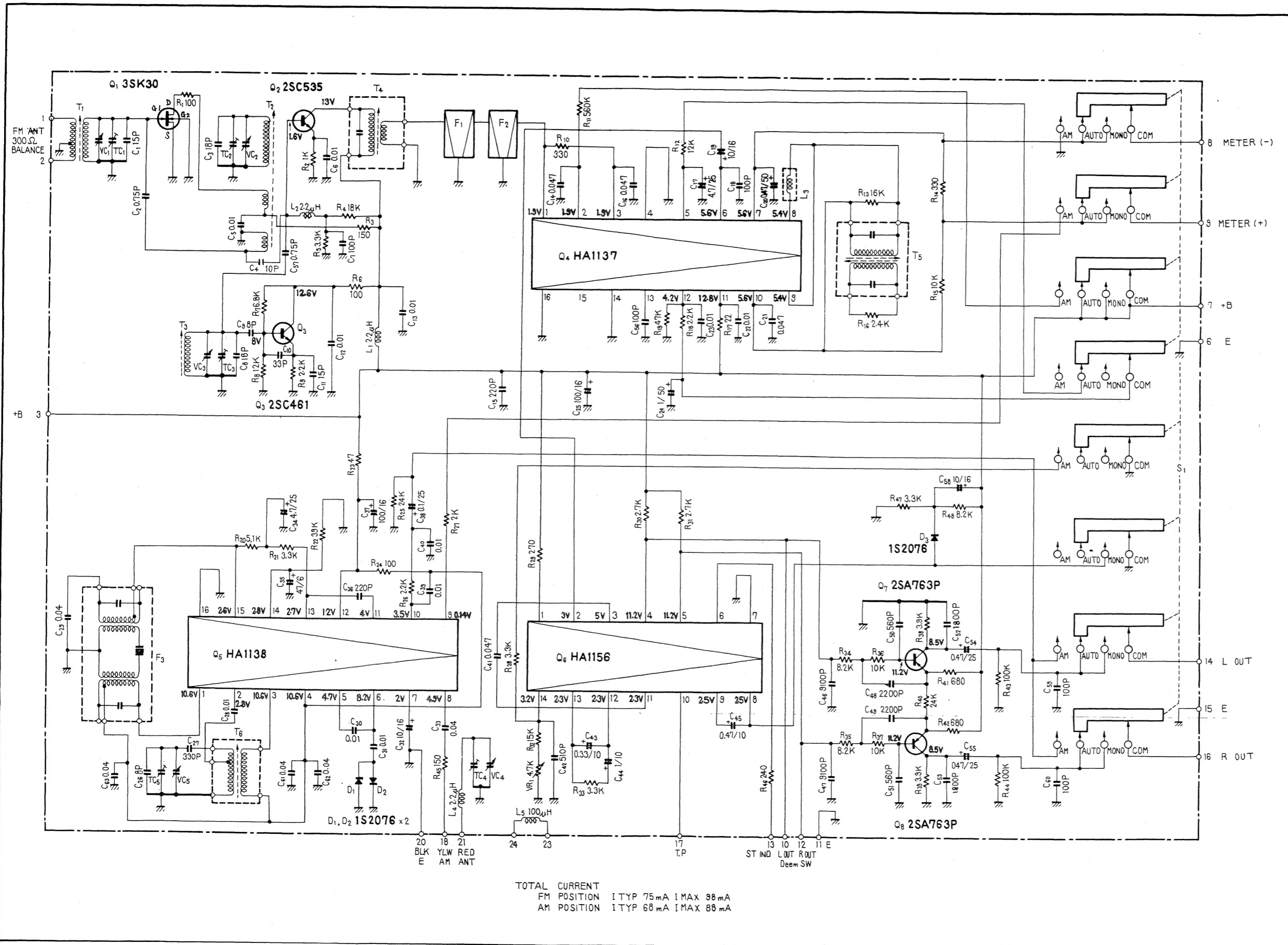
HA1138



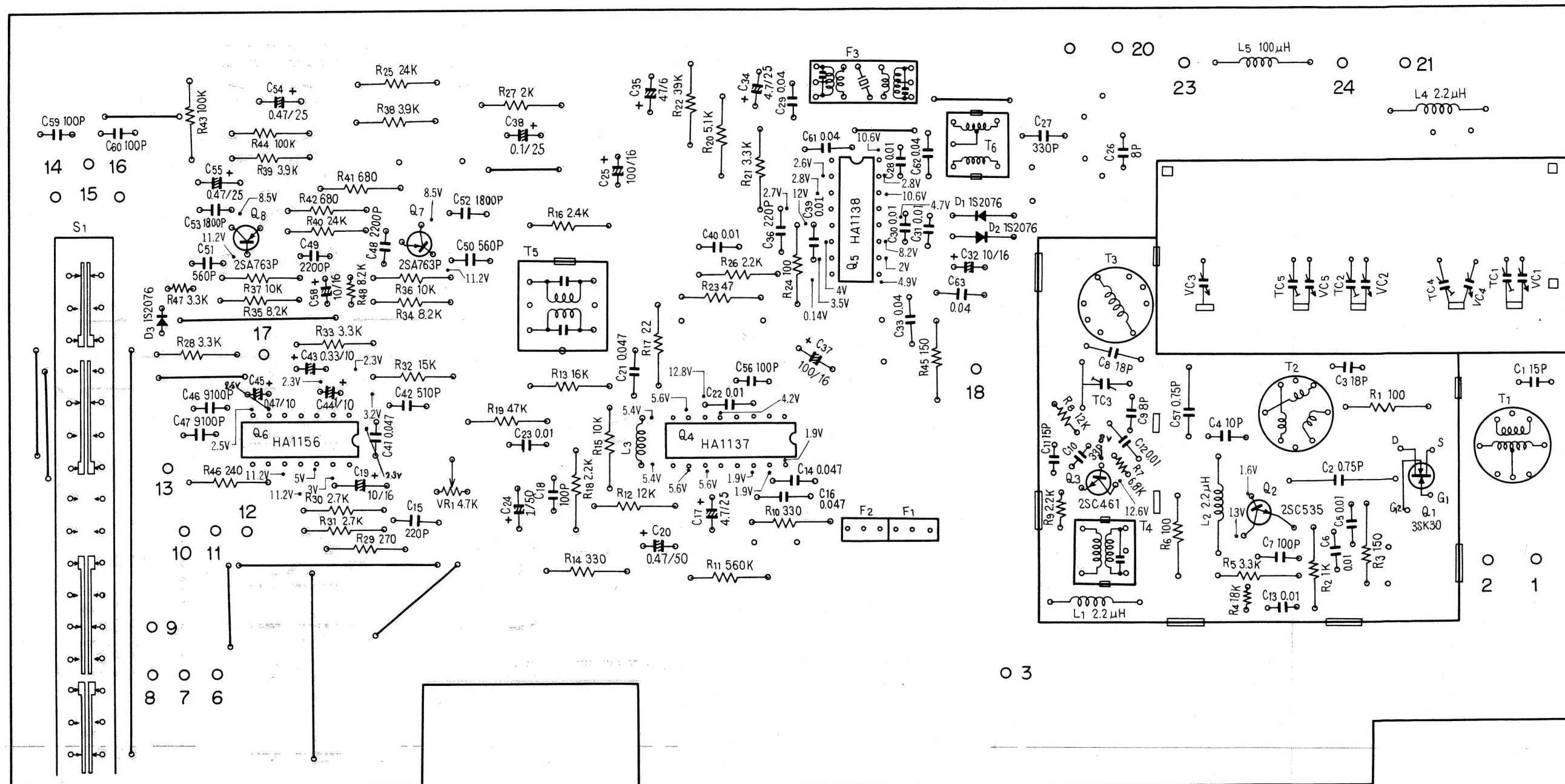
HA1156



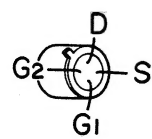
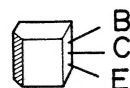
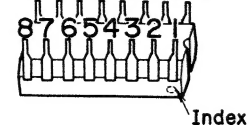
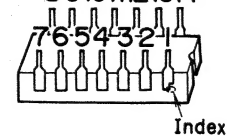
11.3 TUNER ASSEMBLY (AWE-048-0)



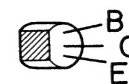
Foil Side



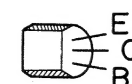
3SK30

2SC535
2SC461HA1137
HA1138
9 10 11 12 13 14 15 16
8 7 6 5 4 3 2 1HA1156
8 9 10 11 12 13 14
7 6 5 4 3 2 1

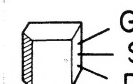
2SA763P



(2SA725)



(2SK55)



Part List of Tuner Assembly (AWE-048-0)

CAPACITORS

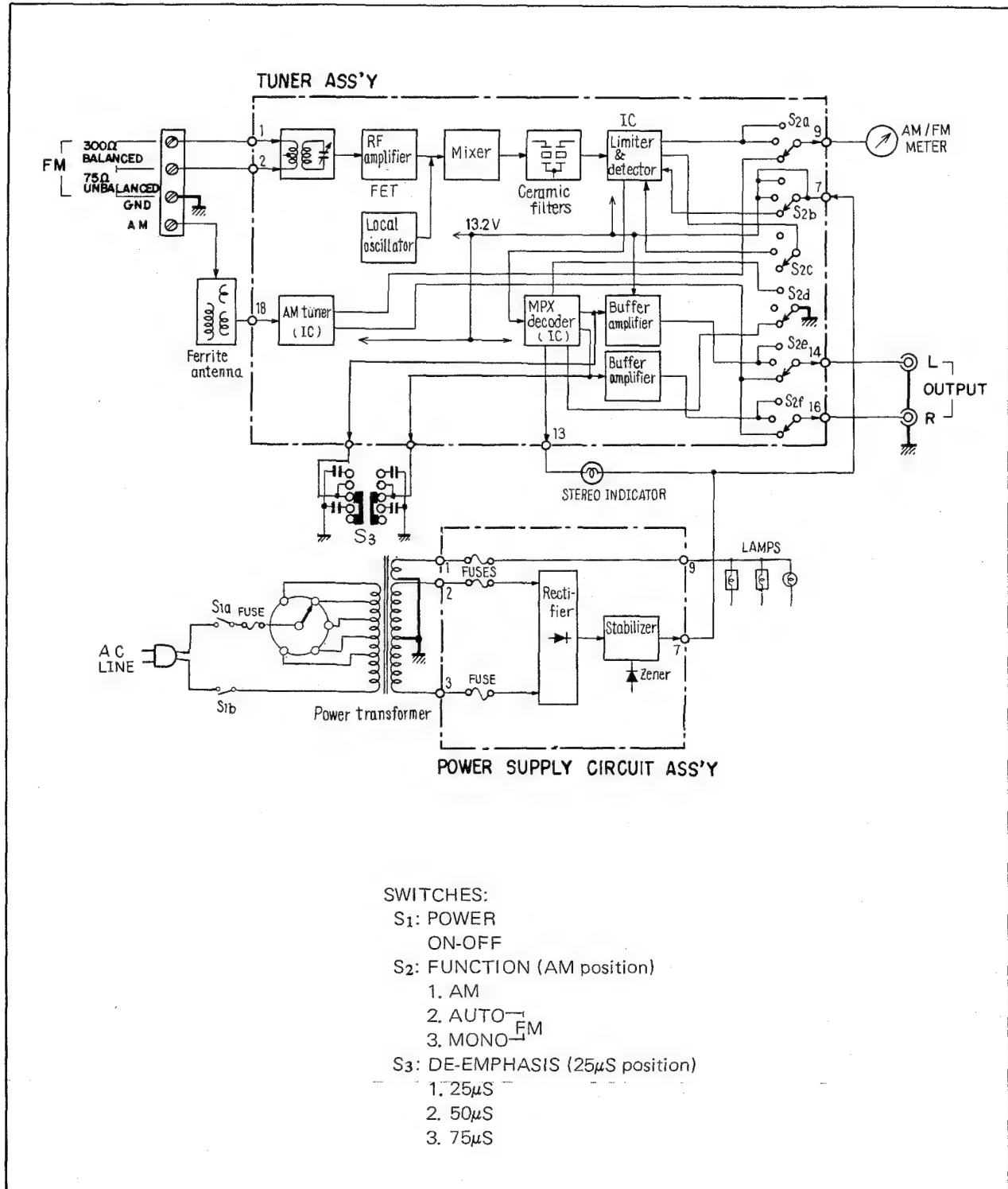
Symbol	Description				Part No.	
VC	Tuning capacitor				ACK-012-0	
TC3	Ceramic trimmer				C43-007-A	
C1	Ceramic	15p	50V		CCDTH 150K 50	
C2	Ceramic	0.75p	500V		CGB R75K 500	
C3	Ceramic	18p	50V		CCDTH 180K 50	
C4	Ceramic	10p	50V		CCDSL 100K 50	
C5	Ceramic	0.01	50V		CKDYF 103Z 50	
C6	Ceramic	0.01	50V		CKDYF 103Z 50	
C7	Ceramic	100p	50V		CCDSL 101K 50	
C8	Ceramic	18p	50V		CCDSH 180K 50	
C9	Ceramic	8p	50V		CCDCH 080F 50	
C10	Ceramic	33p	50V		CCDCH 330K 50	
C11	Ceramic	15p	50V		CCDCH 150K 50	
C12	Ceramic	0.01	50V		CKDYB 103K 50	
C13	Ceramic	0.01	50V		CKDYF 103Z 50	
C14	Ceramic	0.047	25V		CKDBC 473Z 25	
C15	Ceramic	220p	50V		CCDSL 221K 50	
C16	Ceramic	0.047	25V		CKDBC 473Z 25	
C17	Electrolytic	4.7	25V		CEA 4R7P 25	
C18	Ceramic	100p	50V		CCDSL 101K 50	
C19	Electrolytic	10	16V		CEA 100P 16	
C20	Electrolytic	0.47	50V		CEA R47P 50	
C21	Ceramic	0.047	25V		CKDBC 473Z 25	
C22	Ceramic	0.01	50V		CKDYF 103Z 50	
C23	Ceramic	0.01	50V		CKDYF 103Z 50	
C24	Electrolytic	1	50V		CEA 010P 50	
C25	Electrolytic	100	16V		CEA 101P 16	
C26	Ceramic	8p	50V		CCDXL 080F 50	
C27	Styrol	330p	50V		CQSA 331J 50	
C28	Mylar	0.01	50V		CQMA 103K 50	
C29	Ceramic	0.04	50V		CKDYF 403Z 50	
C30	Ceramic	0.01	50V		CKDYF 103Z 50	
C31	Ceramic	0.01	50V		CKDYF 103Z 50	
C32	Electrolytic	10	16V		CEA 100P 16	
C33	Ceramic	0.04	50V		CKDYF 403Z 50	
C34	Electrolytic	4.7	25V		CEA 4R7P 25	
C35	Electrolytic	47	6V		CEA 470P 6	
C36	Ceramic	220p	50V		CCDSL 221K 50	
C37	Electrolytic	100	16V		CEA 101P 16	
C38	Electrolytic	0.1	25V		CSSA 0R1M 25	
C39	Ceramic	0.01	50V		CKDYB 103K 50	
C40	Ceramic	0.01	50V		CKDYB 103K 50	
C41	Mylar	0.047	50V		CQMA 473K 50	
C42	Styrol	510p	50V		CQSH 511J 50	
C43	Electrolytic	0.33	10V		CSSA R33M 10	
C44	Electrolytic	1	10V		CSSA 010M 10	
C45	Electrolytic	0.47	10V		CSSA R47M 10	

Symbol	Description				Part No.	
C46	Mylar	0.0091	50V		CQMA 912J 50	
C47	Mylar	0.0091	50V		CQMA 912J 50	
C48	Ceramic	0.0022	50V		CKDYB 222K 50	
C49	Ceramic	0.0022	50V		CKDYB 222K 50	
C50	Ceramic	560p	50V		CKDYB 561K 50	
C51	Ceramic	560p	50V		CKDYB 561K 50	
C52	Ceramic	0.0018	50V		CKDYB 182K 50	
C53	Ceramic	0.0018	50V		CKDYB 182K 50	
C54	Electrolytic	0.47	25V		CSSA R47M 25	
C55	Electrolytic	0.47	25V		CSSA R47M 25	
C56	Ceramic	100p	50V		CCDSL 101K 50	
C57	Ceramic	0.75p	500V		CGB R75K 500	
C58	Electrolytic	10	16V		CEA 100P 16	
C59	Ceramic	100P	50V		CCDSL 101K 50	
C60	Ceramic	100p	50V		CCDSL 101K 50	
C61	Ceramic	0.04	50V		CKDYF 403Z 50	
C62	Ceramic	0.04	50V		CKDYF 403Z 50	
C63	Ceramic	0.04	50V		CKDYF 403Z 50	
C64						

RESISTORS

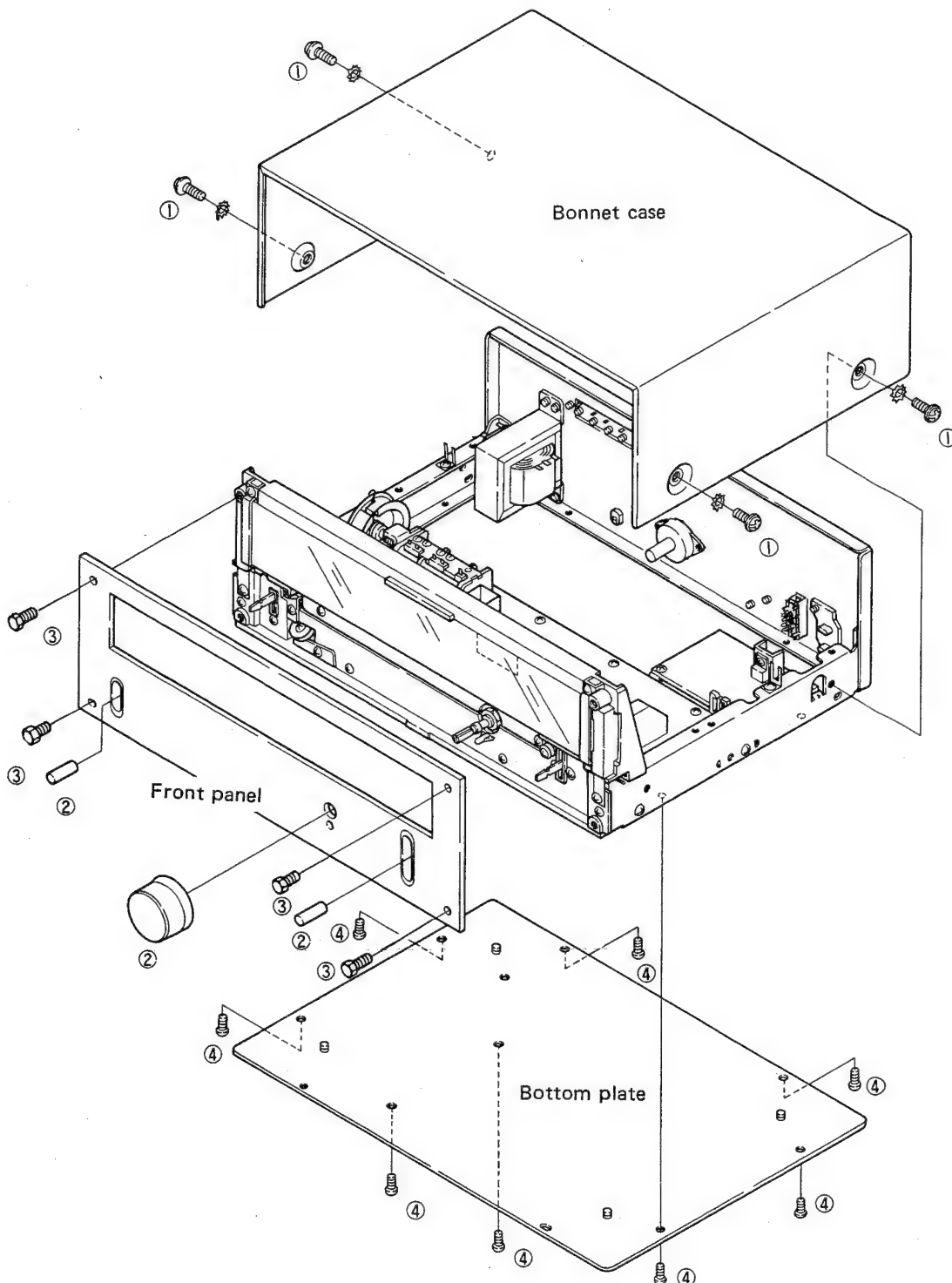
Symbol	Description				Part No.	
R1	Carbon film	100			RD¼PS 101J	
R2	Carbon film	1k			RD¼PS 102J	
R3	Carbon film	150			RD¼PS 151J	
R4	Carbon film	18k			RD¼VS 183J	
R5	Carbon film	3.3k			RD¼PS 332J	
R6	Carbon film	100			RD¼PS 101J	
R7	Carbon film	6.8k			RD¼VS 682J	
R8	Carbon film	12k			RD¼VS 123J	
R9	Carbon film	2.2k			RD¼VS 222J	
R10	Carbon film	330			RD¼PS 331J	
R11	Carbon film	560k			RD¼PS 564J	
R12	Carbon film	12k			RD¼PS 123J	
R13	Carbon film	16k			RD¼PS 163J	
R14	Carbon film	330			RD¼PS 331J	
R15	Carbon film	10k			RD¼PS 103J	
R16	Carbon film	2.4k			RD¼PS 242J	
R17	Carbon film	22			RD¼PS 220J	
R18	Carbon film	2.2k			RD¼PS 222J	
R19	Carbon film	47k			RD¼PS 473J	
R20	Carbon film	5.1k			RD¼PS 512J	
R21	Carbon film	3.3k			RD¼PS 332J	
R22	Carbon film	39k			RD¼PS 393J	
R23	Carbon film	47			RD¼PS 470J	
R24	Carbon film	100			RD¼PS 101J	
R25	Carbon film	24k			RD¼PS 243J	

4. BLOCK DIAGRAM



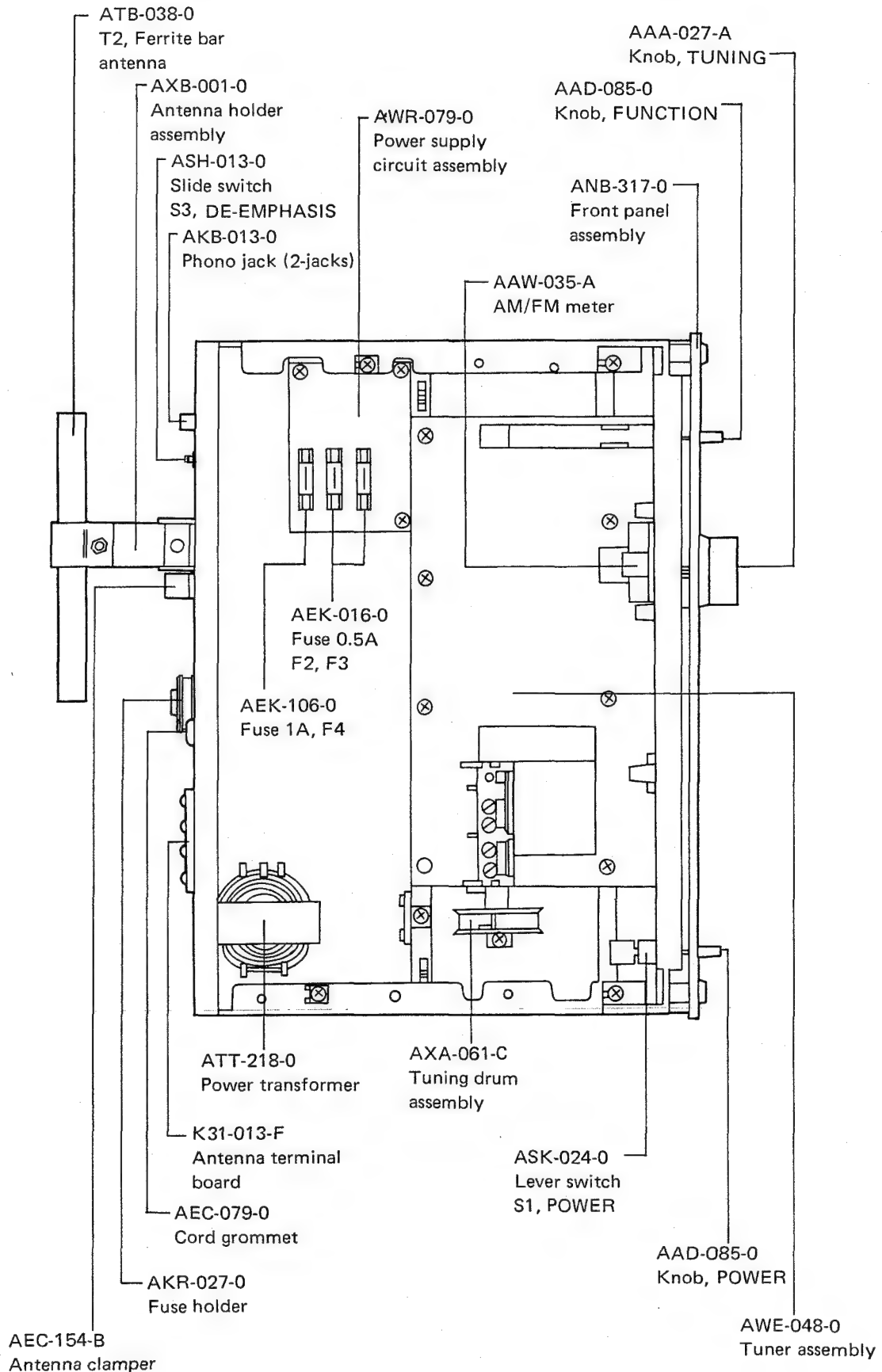
5. DISASSEMBLY

1. To remove the bonnet case, remove 2 screws each fastening either side and lift the bonnet case.
2. Pull off all the knobs.
3. To remove the front panel, remove 4 screws.
4. To remove the bottom plate, remove a total of 8 screws.



6. PARTS LOCATION

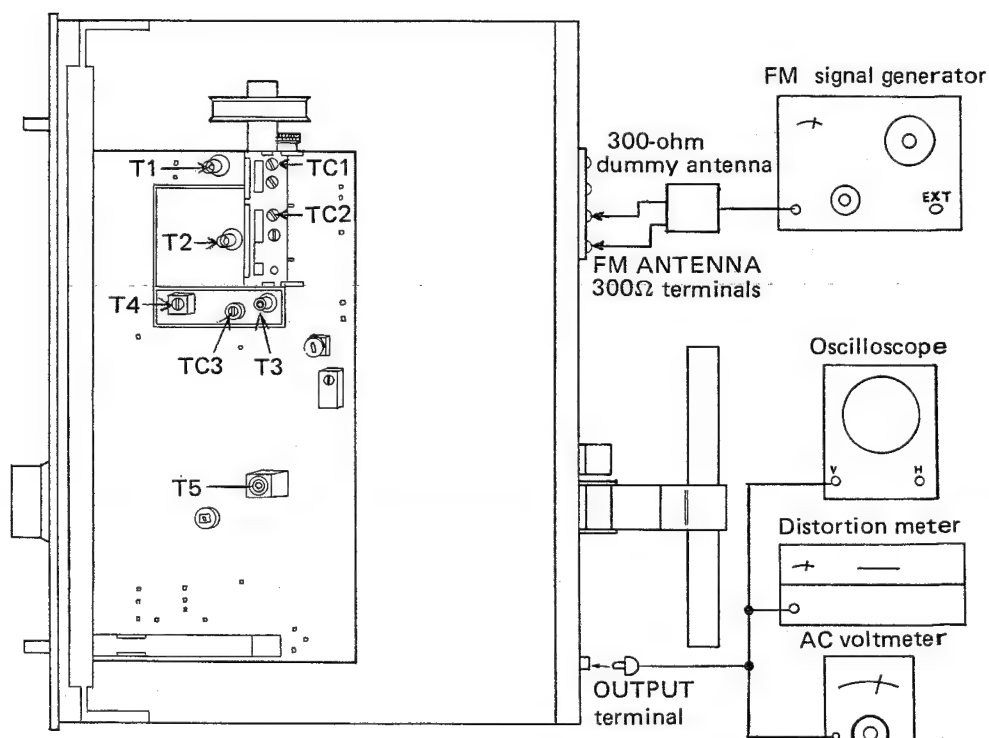
Top View



7. ADJUSTMENTS

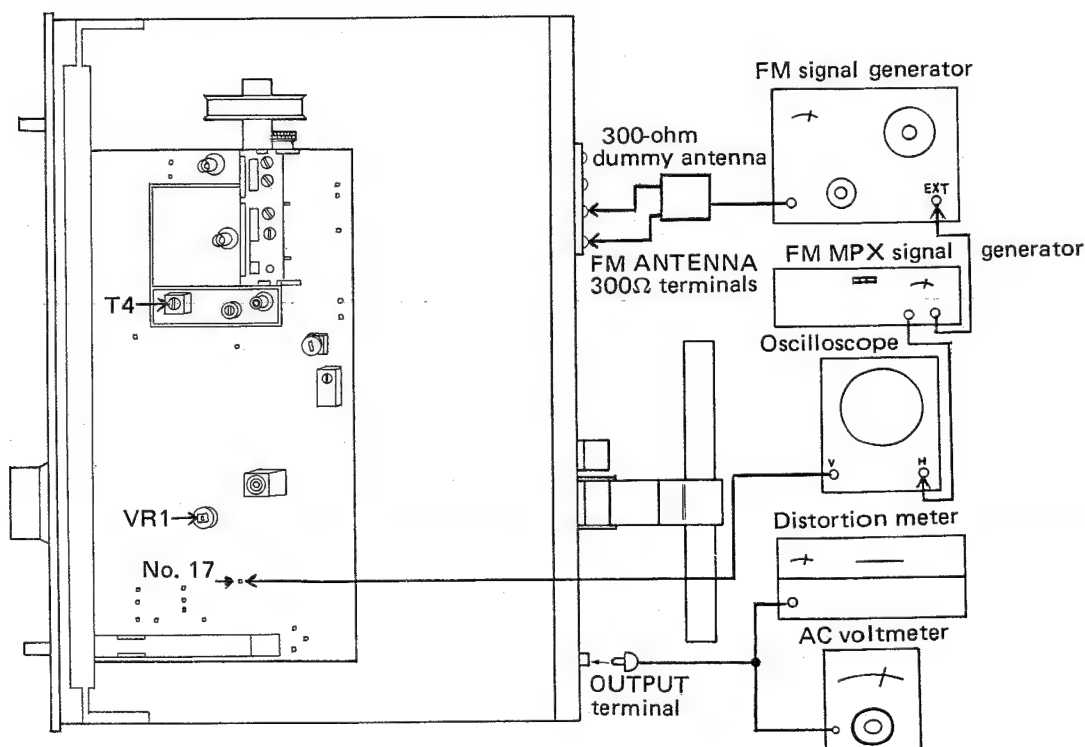
FM Section

1. Switch positions on the TX-5300:
 FUNCTION FM MONO
 POWER ON
2. Connection of instruments:
 FM Signal Generator (FM SG).... Connect to FM ANTENNA terminals through 300 Ω dummy antenna.
 AC Voltmeter } Connect in parallel to OUTPUT
 Distortion meter } jack.
 Oscilloscope }
3. Set FM SG to 100% modulation (± 75 kHz deviation) at 400Hz and 100dB output.
4. Tune FM SG and TX-5300 to dial readings of 87.4MHz (left scale end).
5. Adjust T5 (lower core) so that AM/FM meter points to the center.
6. Set FM SG output to 8 ~ 10dB and adjust T1, T2 and T3 to maximize audio frequency output level.
7. Tune FM SG and TX-5300 to dial readings of 106MHz.
8. Set FM SG output to 8 ~ 10dB and adjust TC1, TC2 and TC3 to maximize audio frequency output level.
- Repeat steps 4 through 8 so that output is maximized when the dial indicates the given frequencies.
9. Tune FM SG and TX-5300 to dial readings of 87.4MHz and adjust T4 to maximize audio frequency output level when FM SG output is 8 ~ 10dB.
10. Detune TX-5300 so that only noise is received.
11. Adjust T5 (lower core) so that AM/FM meter points to the center.
12. Tune FM SG and TX-5300 to dial readings of 98MHz. Fine tune TX-5300, observing AM/FM meter.
13. Set FM SG output to 60dB and adjust T5 (upper core) to minimize distortion.



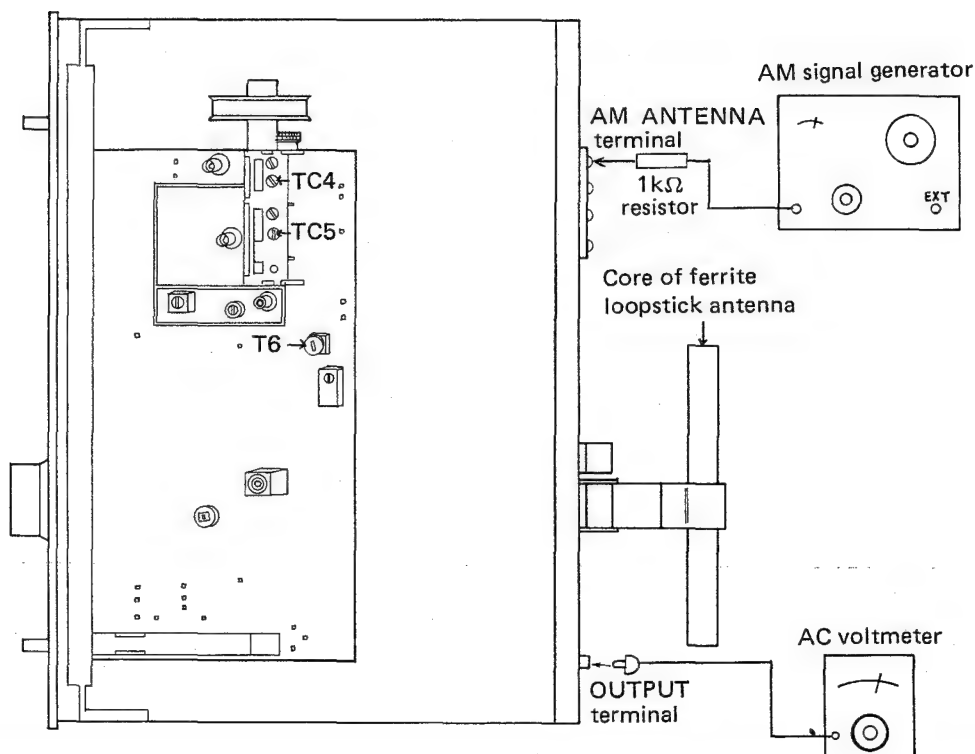
FM MPX Section

- The TX-5300 incorporates a PLL demodulator circuit. This adjustment should only be made when MPX IC has been replaced.
 - This adjustment should be made after completion of FM section adjustment.
1. Switch positions on the TX-5300:
 FUNCTION FM AUTO
 POWER ON
 2. Connection of instruments:
 FM Signal Generator (FM SG) ... Connect to FM ANTENNA terminals through 300 Ω dummy antenna.
 MPX Signal Generator (MPX SG) . Connect to FM SG's external modulator terminals.
 Oscilloscope Connect horizontal input to MPX SG's PILOT OUT terminals and vertical input to No. 17 terminal of tuner assembly.
 Distortion meter Connect to OUTPUT jack.
 3. Tune FM SG and TX-5300 to dial readings of 98MHz.
 4. Set MPX SG to ± 67.5 kHz deviation at 1kHz for left and right channels and FM SG output to 60dB.
 5. Produce a Lissajous pattern on oscilloscope and adjust VR1 to make the pattern still.
 6. Set MPX SG to ± 67.5 kHz deviation at 1kHz for left and right channels and to ± 7.5 kHz deviation for 19kHz pilot signal. Set FM SG output to 60dB.
 7. Adjust T4 to minimize distortion of audio frequencies for left or right channel.



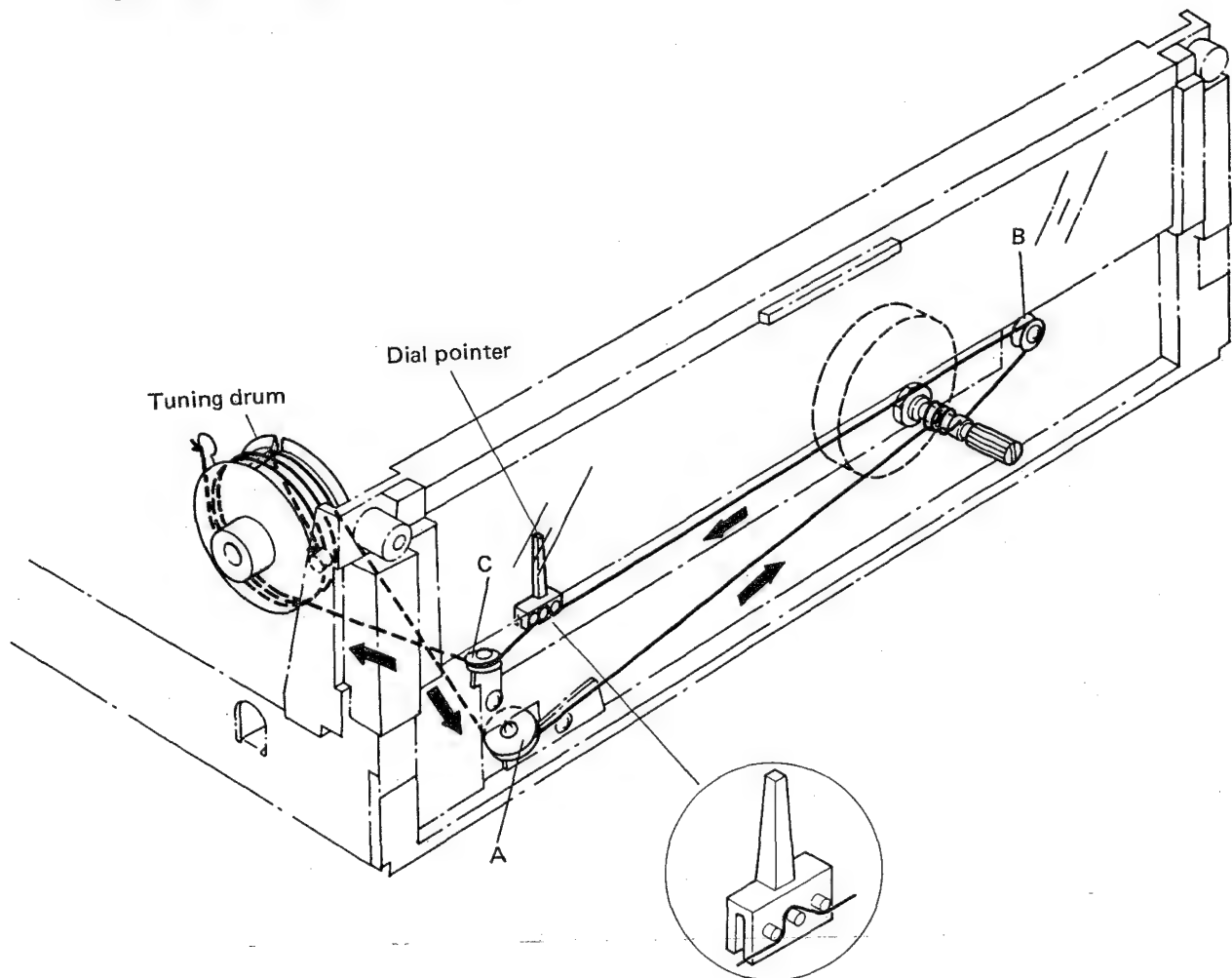
AM Section

1. Switch positions on the TX-5300:
 FUNCTION AM
 POWER ON
2. Connection of instruments:
 AM Signal Generator (AM SG) Connect to AM ANTENNA terminals in series with dummy antenna (1k Ω resistor).
 AC Voltmeter Connect to OUTPUT jack.
3. Set AM SG to 30% modulation at 400Hz and 30dB output.
4. Tune AM SG and TX-5300 to dial readings of 600kHz and adjust T6 to maximize audio frequency output level. (Adjust core of ferrite loopstick antenna at the same time.)
5. Tune AM SG and TX-5300 to dial readings of 1,400kHz and adjust TC4 and TC5 to maximize audio frequency output level.
- Repeat steps 4 and 5 so that output is maximized when the dial indicates these frequencies.

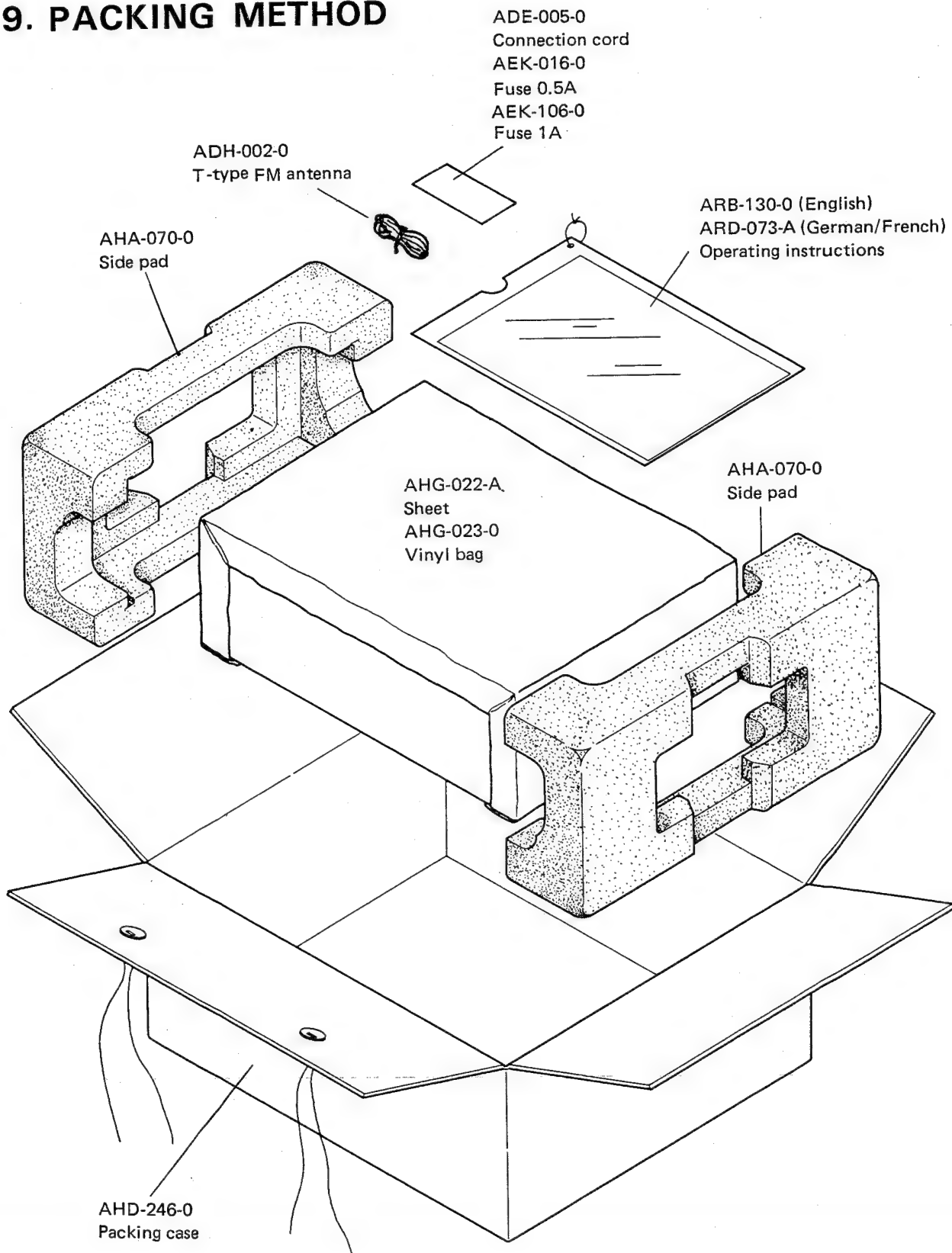


8. DIAL CORD STRINGING

1. Set the tuning capacitor to maximum capacitance, fully counterclockwise.
2. Fasten one end of the cord to the protrusion on the tuning drum and lead it round pulley A.
3. Wind the cord 3 turns round the tuning shaft and run it round pulleys B and C.
4. Wind the cord 2 turns round the dial pulley and tie the end to the spring while tensioning the spring slightly.
5. Confirm that dial stringing moves smoothly. If so, cut the unnecessary portion of string.
6. Turn the tuning knob fully counterclockwise and fix the dial pointer to string so that it indicates low end on the dial scale.



9. PACKING METHOD



10. EXPLODED VIEW AND PARTS LIST

NOTE:

Parts number is subject to change for the purpose of improvement with notice of a service bulletin.

Service bulletin will be furnished whenever necessary and you are requested to amend parts number in this manual according to the instructions.

Parts List of Exploded View

NOTICE: Any parts asterisked (*) are subject to being not supplied.

Key No.	Description	Part No.	
1	Tuning drum assembly	AXA-061-C	
2	Tuner assembly	AWE-048-0	
3*	Dial scale plate holder	AEB-066-A	
4*	Rubber clamber	ANF-273-0	
5	Dial scale	AAG-090-0	
6	Lamp holder	AKK-002-0	
7	Lamp 8V, 300mA, dial scale (PL3~4)	E22-032-0	bar type
8*	Insulator (L)	AEC-170-B	
9	Front panel	ANB-317-0	Including 35, 36
10	
11	Screw, front panel	ABA-021-A	
12	Knob (FUNCTION, POWER)	AAD-085-0	
13	Knob (TUNING)	AAA-027-A	
14	Power transformer (T1)	ATT-218-0	
15	Terminal strip 2P	AKC-030-0	
16	Wire clip (B)	AEC-005-0	
17*	Side frame	ANF-270-C	
18	Lever switch (S1, POWER)	ASK-024-0	
19	Lamp 8V, 50mA (PL2, meter)	AEL-026-0	with leads
20	Rubber tube	AEB-065-0	
21	AM/FM meter	AAW-035-A	
22	Tuning shaft assembly	AXA-066-0	
23*	Center frame	ANF-272-A	
24*	Front frame	ANF-271-A	
25	Lamp 6V, 30mA (PL1, stereo ind.)	AEL-017-A	
26	Flat washer	B22-012-0	
27*	Panel stay	AEC-163-B	
28	Pulley shaft	M49-025-E	
29	Pulley (small)	AEC-017-0	
30	Pulley-held metal	ANG-109-0	
31	Pulley (large)	AEC-101-0	
32	Pulley-held metal	ANG-110-0	
33	Dial pointer guide plate	AND-078-0	
34	Dial pointer	AAF-032-0	
35	Spacer	AEC-166-0	attached 9
36	Spacer	AEC-168-0	attached 9
37	Insulator (R)	AEC-173-B	
38	Bonnet	ANE-082-0	
39	Screw, bonnet, M4x8	ABA-079-A	
40	Claw washer	B21-011-0	

Continued on the Next Page

NOTICE: Any parts asterisked (*) are subject to being not supplied.

Key No.	Description	Part No.	
41	Antenna terminal board	K31-013-F	
42*	Rear panel	ANC-156-0	
43	Cord grommet	AEC-079-0	
44	AC power cord	ADG-004-0	
45	Antena clamper	AEC-154-B	
46	Power supply circuit assembly	AWR-079-0	
47*	Ground terminal strip (2P)	K13-048-0	
48	Phono jack (2-jacks)	AKB-013-0	
49*	Bottom plate	ANE-061-0	
50	Foot	AEC-083-A	
51	Antenna holder assembly	AXB-001-0	
52	Ferrite bar antenna (T2)	ATB-038-0	
53	Slide switch (S3, DE-EMPHASIS)	ASH-013-0	
54	Lock plate	AEC-199-0	
55	Fuse holder (line voltage selector)	AKR-027-0	
56	
57	Pulley shaft	ALA-017-0	
58	Washer (t = 1 mm)	M45-086-0	
59	Nut (9φ)	B71-004-0	

TX-5300

Symbol	Description	Part No.
R26	Carbon film 2.2k	RD¼PS 222J
R27	Carbon film 2k	RD¼PS 202J
R28	Carbon film 3.3k	RD¼PS 332J
R29	Carbon film 270	RD¼PS 271J
R30	Carbon film 2.7k	RD¼PS 272J
R31	Carbon film 2.7k	RD¼PS 272J
R32	Carbon film 15k	RD¼PS 153J
R33	Carbon film 3.3k	RD¼PS 332J
R34	Carbon film 8.2k	RD¼PS 822J
R35	Carbon film 8.2k	RD¼PS 822J
R36	Carbon film 10k	RD¼PS 103J
R37	Carbon film 10k	RD¼PS 103J
R38	Carbon film 3.9k	RD¼PS 392J
R39	Carbon film 3.9k	RD¼PS 392J
R40	Carbon film 24k	RD¼PS 243J
R41	Carbon film 680	RD¼PS 681J
R42	Carbon film 680	RD¼PS 681J
R43	Carbon film 100k	RD¼PS 104J
R44	Carbon film 100k	RD¼PS 104J
R45	Carbon film 150	RD¼PS 151J
R46	Carbon film 240	RD¼PS 241J
R47	Carbon film 3.3k	RD¼VS 332J
R48	Carbon film 8.2k	RD¼VS 822J
VR1	Semi-fixed 4.7k-B	C92-051-0

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	FET 3SK30-B (2SK55-D)	
Q2	Transistor 2SC535-A or B	
Q3	Transistor 2SC461-B	
Q4	IC HA1137	
Q5	IC HA1138	
Q6	IC HA1156	
Q7	Transistor 2SA763P-6 or 5 (2SA725-F or G)	
Q8	Transistor 2SA763P-6 or 5 (2SA725-F or G)	
D1	Diode 1S 2076 (1S 2473)	
D2	Diode 1S 2076 (1S 2473)	
D3	Diode 1S 2076 (1S 2473)	

TRANSFORMERS, COILS

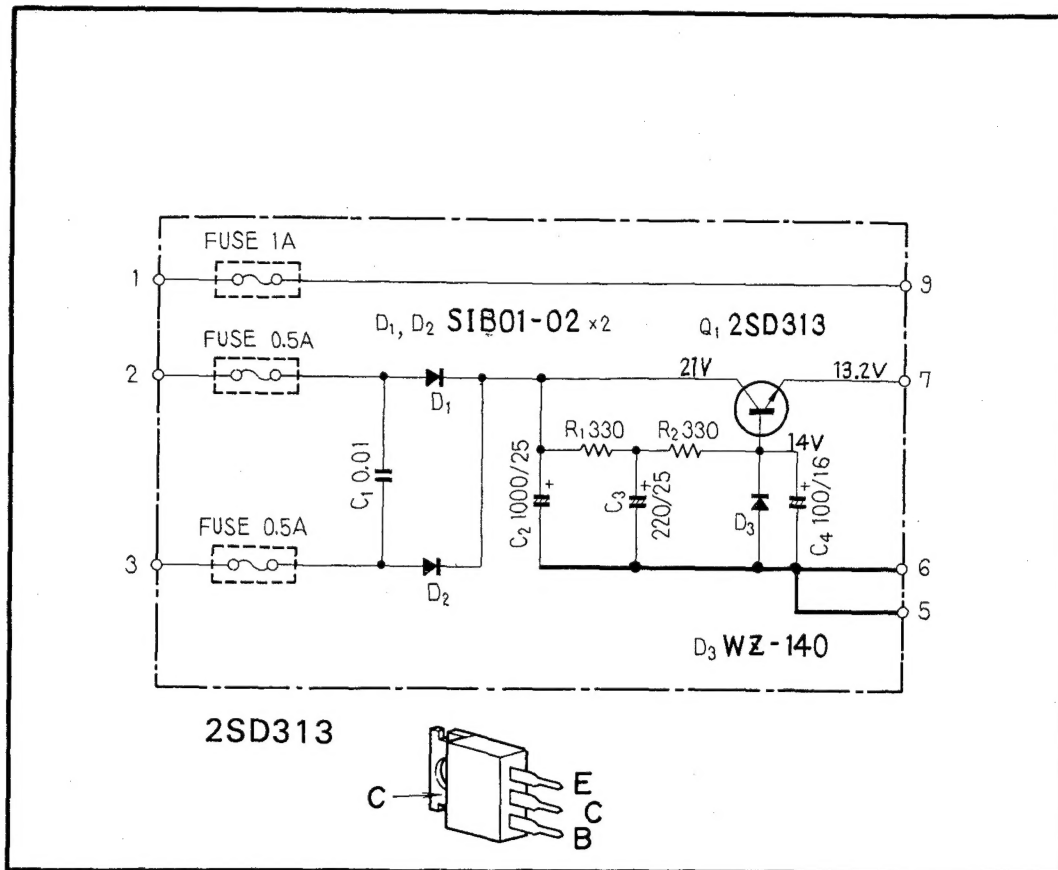
Symbol	Description	Part No.
T1	FM antenna coil	ATC-030-0
T2	FM RF coil	ATC-024-0
T3	FM oscillator coil	ATC-031-0
T4	FM matching transformer	ATE-008-A
T5	FM IF transformer	T73-035-A

Symbol	Description	Part No.	
T6	AM oscillator coil	ATB-039-0	
F1	FM ceramic filter	ATF-013-B	
F2	FM ceramic filter	ATF-013-B	
F3	AM ceramic filter	ATF-027-0	
L1	RF choke coil 2.2 μ H	T24-028-A	
L2	RF choke coil 2.2 μ H	T24-028-A	
L3	RF choke coil 18 μ H	ATH-007-0	
L4	RF choke coil 2.2 μ H	T24-028-A	
L5	RF choke coil 100 μ H	T24-030-A	

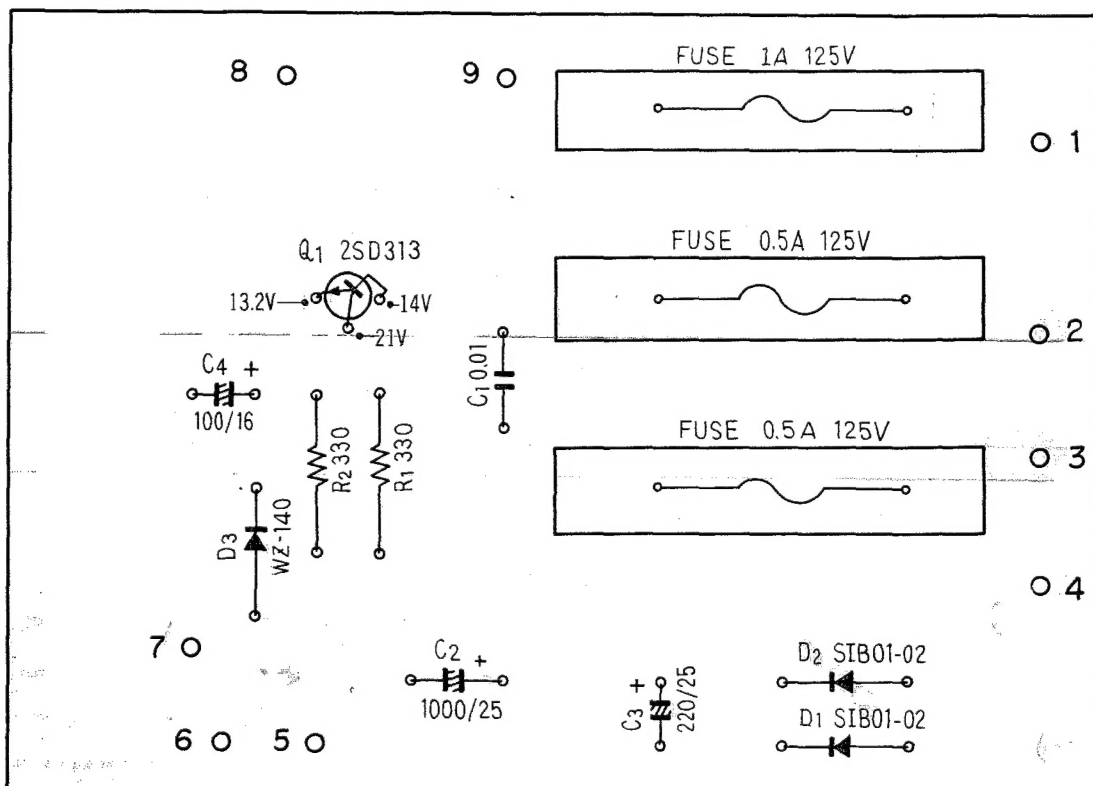
OTHERS

Symbol	Description	Part No.	
	Shield plate	ANH-114-0	
	Lever switch (FUNCTION)	ASK-082-0	

11.4 POWER SUPPLY CIRCUIT ASSEMBLY (AWR-079-0)



Foil Side



Parts List of Power Supply Circuit Assembly (AWR-079-0)

CAPACITORS

Symbol	Description	Part No.	
C1	Ceramic 0.01 150V	ACG-002-0	
C2	Electrolytic 1000 25V	CEA 102P 25	
C3	Electrolytic 220 25V	CEA 221P 25	
C4	Electrolytic 100 16V	CEA 101P 16	

RESISTORS

Symbol	Description	Part No.	
R1	Carbon film 330	RD $\frac{1}{4}$ PS 331J	
R2	Carbon film 330	RD $\frac{1}{4}$ PS 331J	

SEMICONDUCTORS

Symbol	Description	Part No.	
D1	Diode SIB01-02		
D2	Diode SIB01-02		
D3	Zener diode WZ-140		
Q1	Transistor 2SD313-E		

OTHERS

Symbol	Description	Part No.	
S1	Heat sink Fuse clip	ANH-117-0 AKR-013-0	

PIONEER ELECTRONIC CORPORATION

4-1, 1-Chome, Meguro, Meguro-ku, Tokyo 153, Japan

U.S. PIONEER ELECTRONICS CORPORATION

75 Oxford Drive, Moonachie, New Jersey 07074, U.S.A.

PIONEER ELECTRONIC (EUROPE) N.V.

Meir-Center Meir 21, 2000 Antwerp, Belgium

PIONEER ELECTRONICS AUSTRALIA PTY. LTD.

256-8 City Road, South Melbourne, Victoria 3205, Australia